



Rein1.ST25.txt
SEQUENCE LISTING

<110> Large Scale Biology Corporation
Stephen, Reinl
Lindbo, John
Turpen, Thomas

<120> CREATION OF VARIABLE LENGTH AND SEQUENCE LINKER REGIONS FOR
DUAL-DOMAIN OR MULTI-DOMAIN MOLECULES

<130> 34150/0013

<140> US 09/667,237

<141> 2000-09-22

<150> US 60/155,978

<151> 1999-09-24

<160> 52

<170> PatentIn version 3.3

<210> 1

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Glycine rich linker

<400> 1

Pro Gly Ile Ser Gly Gly Gly Gly Gly
1 5

<210> 2

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Asparagine rich linker

<400> 2

Asn Asn Asn Asn Asn Asn Asn Asn Asn Asn Leu Gly Ile Glu Gly Arg
1 5 10 15

<210> 3

<211> 15

<212> PRT

<213> Artificial

<220>

<223> (Gly4-Ser)3

<400> 3

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

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<210> 4
 <211> 30
 <212> DNA
 <213> Artificial

 <220>
 <223> VH domain forward primer, chemically synthesized

 <400> 4
 gtggcatgca ggttcaactg gtggagtctg 30

<210> 5
 <211> 26
 <212> DNA
 <213> Artificial

 <220>
 <223> VH domain reverse primer, chemically synthesized

 <220>
 <221> misc_feature
 <222> (1)..(3)
 <223> "asy" can appear from 1 to 50 times before the remainder of the sequence

<400> 5
 asytgaggag acggtgacca gggttc 26

<210> 6
 <211> 41
 <212> DNA
 <213> Artificial

 <220>
 <223> VH domain reverse primer, first reaction, chemically synthesized

 <400> 6
 asyasyasya syasyasytg aggagacggt gaccagggtt c 41

<210> 7
 <211> 50
 <212> DNA
 <213> Artificial

 <220>
 <223> VH domain reverse primer, second reaction, chemically synthesized

 <400> 7
 asyasyasya syasyasyas yasyasytga ggagacggtg accagggttc 50

<210> 8
 <211> 29
 <212> DNA
 <213> Artificial

 <220>
 <223> VL domain forward primer, chemically synthesized

Rein1.ST25.txt

<220>
 <221> misc_feature
 <223> "rst" can appear from 1 to 50 times before the remainder of the sequence

 <220>
 <221> misc_feature
 <222> (1)..(3)
 <223> "rst" can appear from 1 to 50 times before the remainder of the sequence

 <400> 8
 rstgacattc agatgacca gtctccttc 29

 <210> 9
 <211> 39
 <212> DNA
 <213> Artificial

 <220>
 <223> VL domain reverse primer, chemically synthesized

 <400> 9
 caccctaggc tatcgtttga tcagtacctt ggtcccctg 39

 <210> 10
 <211> 44
 <212> DNA
 <213> Artificial

 <220>
 <223> VL domain forward primer, third reaction, chemically synthesized

 <400> 10
 rstrstrstr strstrstga cattcagatg acccagtctc cttc 44

 <210> 11
 <211> 53
 <212> DNA
 <213> Artificial

 <220>
 <223> VL domain forward primer, fourth reaction, chemically synthesized

 <400> 11
 rstrstrstr strstrstrs trstrstgac attcagatga cccagtctcc ttc 53

 <210> 12
 <211> 39
 <212> DNA
 <213> Artificial

 <220>
 <223> Linker region nucleotide sequence, chemically synthesized

 <400> 12
 actactgcta ctggtgctag tactactgct ggtgctagt 39

<210> 13
 <211> 13
 <212> PRT
 <213> Artificial

<220>
 <223> Linker region amino acid sequence

<400> 13

Thr Thr Ala Thr Gly Ala Ser Thr Thr Ala Gly Ala Ser
 1 5 10

<210> 14
 <211> 39
 <212> DNA
 <213> Artificial

<220>
 <223> Linker region nucleotide sequence, chemically synthesized

<400> 14
 gctactgctg ctagtggtgc tgctgctggt ggtggtact 39

<210> 15
 <211> 13
 <212> PRT
 <213> Artificial

<220>
 <223> Linker region amino acid sequence

<400> 15

Ala Thr Ala Ala Ser Gly Ala Ala Ala Gly Gly Gly Thr
 1 5 10

<210> 16
 <211> 39
 <212> DNA
 <213> Artificial

<220>
 <223> Linker region nucleotide sequence, chemically synthesized

<400> 16
 gctactggtg ctagtactag tgctactgct ggtggtagt 39

<210> 17
 <211> 13
 <212> PRT
 <213> Artificial

<220>
 <223> Linker region amino acid sequence

<400> 17

Reinl.ST25.txt

Ala Thr Gly Ala Ser Thr Ser Ala Thr Ala Gly Gly Ser
1 5 10

<210> 18
<211> 39
<212> DNA
<213> Artificial

<220>
<223> Linker region nucleotide sequence, chemically synthesized

<400> 18
agtactgctg ctggtactag tagtggtagt agtactggt 39

<210> 19
<211> 13
<212> PRT
<213> Artificial

<220>
<223> Linker region amino acid sequence

<400> 19
Ser Thr Ala Ala Gly Thr Ser Ser Gly Ser Ser Thr Gly
1 5 10

<210> 20
<211> 51
<212> DNA
<213> Artificial

<220>
<223> Linker region nucleotide sequence, chemically synthesized

<400> 20
gctagtactg ctactagtag tgggtggtggt ggtactggta gtagtgctgc t 51

<210> 21
<211> 17
<212> PRT
<213> Artificial

<220>
<223> Linker region amino acid sequence

<400> 21
Ala Ser Thr Ala Thr Ser Ser Gly Gly Gly Thr Gly Ser Ser Ala Ala
1 5 10 15

Ala

<210> 22
<211> 60

Reinl.ST25.txt

<212> DNA
 <213> Artificial
 <220>
 <223> Linker region nucleotide sequence, chemically synthesized
 <400> 22
 gctactagta ctgctgctgc tgggtgctact agtgctactg gtggtgctag tgggtactggt 60

<210> 23
 <211> 20
 <212> PRT
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 <223> Linker region amino acid sequence
 <400> 23
 Ala Thr Ser Thr Ala Ala Ala Gly Ala Thr Ser Ala Thr Gly Gly Ala
 1 5 10 15
 Ser Gly Thr Gly
 20

<210> 24
 <211> 39
 <212> DNA
 <213> Artificial
 <220>
 <223> Linker region nucleotide sequence, chemically synthesized
 <400> 24
 actggtgcta gtggtgctac tagtagtggt agtagtagt 39

<210> 25
 <211> 13
 <212> PRT
 <213> Artificial
 <220>
 <223> Linker region amino acid sequence
 <400> 25
 Thr Gly Ala Ser Gly Ala Thr Ser Ser Gly Ser Ser Ser
 1 5 10

<210> 26
 <211> 31
 <212> DNA
 <213> Artificial
 <220>
 <223> VH domain forward primer, chemically synthesized
 <400> 26

Reinl.ST25.txt
cctgcatgct ggaggtgcag ttggtggaat c 31

<210> 27
<211> 23
<212> DNA
<213> Artificial

<220>
<223> VH domain reverse primer, chemically synthesized

<220>
<221> misc_feature
<222> (1)..(3)
<223> "asy" can appear from 1 to 50 times before the remainder of the sequence

<400> 27
asyagaggag acggtgacca tga 23

<210> 28
<211> 32
<212> DNA
<213> Artificial

<220>
<223> VH domain reverse primer, first reaction, chemically synthesized

<400> 28
asyasyasya syagaggaga cggtgaccat ga 32

<210> 29
<211> 47
<212> DNA
<213> Artificial

<220>
<223> VH domain reverse primer, second reaction, chemically synthesized

<400> 29
asyasyasya syasyasyas yasyasyaga ggagacggtg accatga 47

<210> 30
<211> 22
<212> DNA
<213> Artificial

<220>
<223> VL domain forward primer, chemically synthesized

<220>
<221> misc_feature
<222> (1)..(3)
<223> "rst" can appear from 1 to 50 times before the remainder of the sequence

<400> 30
rstcagtcg ccctgactca gt 22

Reinl.ST25.txt

<210> 31
 <211> 34
 <212> DNA
 <213> Artificial

<220>
 <223> VL domain reverse primer, chemically synthesized

<400> 31
 caccctaggt caaccaagga cggtcagggt gggtc 34

<210> 32
 <211> 37
 <212> DNA
 <213> Artificial

<220>
 <223> VL domain forward primer, first reaction, chemically synthesized

<400> 32
 rstrstrstr strstrstca gtctgccctg actcagt 37

<210> 33
 <211> 46
 <212> DNA
 <213> Artificial

<220>
 <223> VL domain forward primer, second reaction, chemically synthesized

<400> 33
 rstrstrstr strstrstrs trstrstcag tctgccctga ctcagt 46

<210> 34
 <211> 15
 <212> DNA
 <213> Artificial

<220>
 <223> Linker region nucleotide sequence, chemically synthesized

<400> 34
 ggtgctggtg gtggt 15

<210> 35
 <211> 5
 <212> PRT
 <213> Artificial

<220>
 <223> Linker region amino acid sequence

<400> 35
 Gly Ala Gly Gly Gly
 1 5

<210> 36
 <211> 30
 <212> DNA
 <213> Artificial

<220>
 <223> Linker region nucleotide sequence, chemically synthesized

<400> 36
 actggtggtg gtggtggtag tgggtggtggt 30

<210> 37
 <211> 10
 <212> PRT
 <213> Artificial

<220>
 <223> Linker region amino acid sequence

<400> 37
 Thr Gly Gly Gly Gly Gly Ser Gly Gly Gly
 1 5 10

<210> 38
 <211> 36
 <212> DNA
 <213> Artificial

<220>
 <223> Linker region nucleotide sequence, chemically synthesized

<400> 38
 actactacta ctgctactac tgctggtagt ggtgct 36

<210> 39
 <211> 12
 <212> PRT
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<220>
 <223> Linker region amino acid sequence

<400> 39
 Thr Thr Thr Thr Ala Thr Thr Ala Gly Ser Gly Ala
 1 5 10

<210> 40
 <211> 15
 <212> DNA
 <213> Artificial

<220>
 <223> Linker region nucleotide sequence, chemically synthesized

<400> 40
 gctactactg gtgct 15

<210> 41
 <211> 5
 <212> PRT
 <213> Artificial

<220>
 <223> Linker region amino acid sequence

<400> 41

Ala Ser Thr Gly Ala
 1 5

<210> 42
 <211> 24
 <212> DNA
 <213> Artificial

<220>
 <223> Linker region nucleotide sequence, chemically synthesized

<400> 42
 agtactggta gtagtggtgc tgg

24

<210> 43
 <211> 8
 <212> PRT
 <213> Artificial

<220>
 <223> Linker region amino acid sequence

<400> 43

Ser Thr Gly Ser Ser Gly Ala Gly
 1 5

<210> 44
 <211> 21
 <212> DNA
 <213> Artificial

<220>
 <223> Linker region nucleotide sequence, chemically synthesized

<400> 44
 gctagtagtg gtgctagtagc t

21

<210> 45
 <211> 7
 <212> PRT
 <213> Artificial

<220>
 <223> Linker region amino acid sequence

<400> 45

Rein1.ST25.txt

Ala Ser Ser Gly Ala Ser Ala
1 5

<210> 46
<211> 39
<212> DNA
<213> Artificial

<220>
<223> Linker region nucleotide sequence, chemically synthesized

<400> 46
gctagtgggtg gtactgctgg tactgggtggt agtagtact 39

<210> 47
<211> 13
<212> PRT
<213> Artificial

<220>
<223> Linker region amino acid sequence

<400> 47
Ala Ser Gly Gly Thr Ala Gly Thr Gly Gly Ser Ser Thr
1 5 10

<210> 48
<211> 51
<212> DNA
<213> Artificial

<220>
<223> Linker region nucleotide sequence, chemically synthesized

<400> 48
actagtggta gtggtgctag tgctgctgct ggtgggtgctg ctgctagtgc t 51

<210> 49
<211> 17
<212> PRT
<213> Artificial

<220>
<223> Linker region amino acid sequence

<400> 49
Thr Ser Gly Ser Gly Ala Ser Ala Ala Ala Gly Gly Ala Ala Ala Ser
1 5 10 15

Ala

<210> 50
<211> 24

Reinl.ST25.txt

<212> DNA
<213> Artificial

<220>
<223> Duplex with bubble, upper sequence, chemically synthesized

<400> 50
rstrstrstr strstrstca tgcc 24

<210> 51
<211> 24
<212> DNA
<213> Artificial

<220>
<223> Duplex with bubble, lower sequence, chemically synthesized

<400> 51
ggcatgasya syasyasyas yasy 24

<210> 52
<211> 5
<212> PRT
<213> Artificial

<220>
<223> Linker region amino acid sequence, Gly4Ser

<400> 52
Gly Gly Gly Gly Ser
1 5